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Neapolitan, R.E.;
Systems, Man and Cybernetics, Part A, IEEE Transactions on
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Sui, Y.; Tsuji, T.; Cooper, J.A.;
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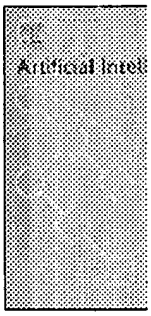
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Richard E. Korf
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3. ☐ **Intention is choice with commitment** • **ARTICLE**
Pages 213-261
Philip R. CohenHector J. Levesque
Abstract

4. ☐ **All I know: A study in autoepistemic logic** • **ARTICLE**
Pages 263-309
Hector J. Levesque
Abstract

5. ☐ **A skeptical theory of inheritance in nonmonotonic semantic networks** • **ARTICLE**
Pages 311-348
John F. HortyRichmond H. ThomasonDavid S. Touretzky
Abstract

6. ☐ **A dynamic systems perspective on qualitative simulation** • **ARTICLE**
Pages 349-362
Elisha Sacks

Abstract

7. ☐ **Quantitative results concerning the utility of explanation-based learning** • **ARTICLE**
Pages 363-391
Steven Minton
Abstract

8. ☑ **The computational complexity of probabilistic inference using bayesian belief networks** • **SHORT COMMUNICATION**
Pages 393-405
Gregory F. Cooper
Abstract

9. ☐ **Announcement** • **ANNOUNCEMENT**
Page 407

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Pages 409-411

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Page 414

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Pages 415-416

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1 Reports from KDD-2001: KDD Cup 2001 report

Jie Cheng, Christos Hatzis, Hisashi Hayashi, Mark-A. Krogel, Shinichi Morishita, David Page, Jun Sese

January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings

This paper presents results and lessons from KDD Cup 2001. KDD Cup 2001 focused on mining biological databases. It involved three cutting-edge tasks related to drug design and genomics.

Keywords: Competition, biology, drug design, genomics

2 Learning belief networks from data: an information theory based approach

Jie Cheng, David A. Bell, Weiru Liu

January 1997 **Proceedings of the sixth international conference on Information and knowledge management**

Full text available: pdf(1.00 MB) Additional Information: full citation, references, citings, index terms

3 Session 11: seminumerical algorithms: A parallel Lauritzen-Spiegelhalter algorithm for probabilistic inference

Alexander V. Kozlov, Jaswinder Pal Singh

November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**

Full text available: pdf(847.30 KB) Additional Information: full citation, abstract, references

Probabilistic inference in belief networks is a promising technique for diagnosis, forecasting and decision analysis tasks. Unfortunately, exact inference can be very expensive computationally. In this paper, we examine whether probabilistic inference can be sped up effectively through parallel computation on real multiprocessors. Our experiments are performed on a 32-processor Stanford DASH multiprocessor, a cache-coherent shared-address-space machine with physically distributed main memory. We ...

4 Unsupervised Bayesian visualization of high-dimensional data

Petri Kontkanen, Jussi Lahtinen, Petri Myllymäki, Henry Tirri

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(160.91 KB) Additional Information: full citation, references, index terms

5 "Is this document relevant?...probably": a survey of probabilistic models in information retrieval

Fabio Crestani, Mounia Lalmas, Cornelis J. Van Rijsbergen, Iain Campbell
December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4

Full text available: pdf(265.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article surveys probablistic approaches to modeling information retrieval. The basic concepts of probabilistic approaches to information retrieval are outlined and the principles and assumptions upon which the approaches are based are presented. The various models proposed in the development of IR are described, classified, and compared using a common formalism. New approaches that constitute the basis of future research are described.

Keywords: information retrieval, probabilistic indexing, probabilistic modeling, probabilistic retrieval, uncertain inference modeling

6 An algorithm for the recovery of both target joint beliefs and full belief from Bayesian networks

Mark Bloemeke
April 1998 **Proceedings of the 36th annual Southeast regional conference**

Full text available: pdf(635.94 KB) Additional Information: full citation, references, index terms

7 Concrete multidimensional statistics in APL2

Bernhard Strohmeier
June 1995 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages**, Volume 25 Issue 4

Full text available: pdf(701.33 KB) Additional Information: full citation, abstract, references, index terms

This paper deals with problems which occur in discrete multi-dimensional statistics and shows how they are solved using APL2. In particular, the APL2 feature primitive function with axis proves to be helpful and allows smart solutions to the problems of computing conditional probability tables and performing the iterative proportional fitting procedure. The implementation is done using the literate APL2-style.

8 A competition-based connectionist model for information retrieval using a merged thesaurus

Inien Syu, S. D. Lang
November 1994 **Proceedings of the third international conference on Information and knowledge management**

Full text available: pdf(636.17 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper investigates a network-based information retrieval model using diagnostic inferencing techniques. A basic inference network in information retrieval consists of two component networks: the document component and the query component. In our approach, there is a layer of nodes corresponding to the documents, and a layer of nodes corresponding to the index terms extracted from the document set, with links connecting documents to the related index terms 1. A thesaurus is used to prov ...

9 A probability propagation in hypertrees

Chun-Hung Tzeng

March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Full text available: pdf(497.05 KB) Additional Information: full citation, abstract, references, index terms

This paper introduces a mathematical model of a probability propagation in hypertrees. Suppose that a probability measure P on a set of random variables factors on a hypertree. That is, there is for each node a non-negative function \p of the configurations of the random variables represented by the node such that P is the product of these functions: P = \7P \p. Each pair (\3Y, {\p}) forms a factorization network of P, where \3Y is a Markov-tree representation of the hypertree. This ...

10 Experimental results on user knowledge assessment with an evidential reasoning methodology

Michel C. Desmarais, Jiming Liu

February 1993 **Proceedings of the 1st international conference on Intelligent user interfaces**

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11 Book review: Abduetive Inference Models for Diagnostic Problem Solving by Y. Peng and J. Reggia (Springer Verlag New York 1990)

Paul Thagard

November 1990 **ACM SIGART Bulletin**, Volume 2 Issue 1

Full text available: pdf(543.24 KB) Additional Information: full citation, abstract, references

In the spring of 1990, the American Association for Artificial Intelligence sponsored a symposium on abductive inference, bringing together several dozen researchers (O'Rorke 1990). The term "abduction" as a form of inference originated with C.S. Peirce in the 1890s, and was introduced in artificial intelligence by Pople (1973). In recent years, it has found increasing use by researchers working on a diverse set of topics, particularly medical diagnosis, scientific discovery, and natural languag ...

12 Infinitely many resolutions of Hempel's paradox

Kevin B. Korb

March 1994 **Proceedings of the 5th conference on Theoretical aspects of reasoning about knowledge**

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What sorts of observations could confirm the universal hypothesis that all ravens are black? Carl Hempel proposed a number of simple and plausible principles which had the odd ("paradoxical") result that not only do observations of black ravens confirm that hypothesis, but so too do observations of yellow suns, green seas and white shoes. Hempel's response to his own paradox was to call it a psychological illusion---i.e., white shoes do indeed confirm that all ravens are black. Karl Popper on ...

Keywords: Bayesian reasoning, confirmation, confirmation paradoxes, induction, inductive inference, protocol

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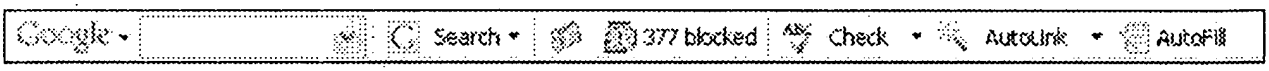
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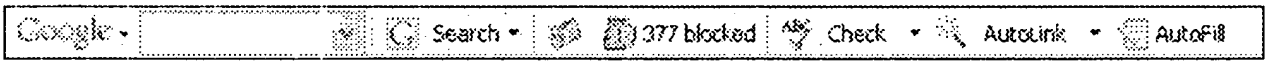
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For a gentle introduction to my current research on causality, click 1 or 2.

1 Transcript and slides of 1996 Faculty Research Lecture: *The Art and Science of Cause and Effect*

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